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1 A histogram-based model for video traffic behavior in an ATM multiplexer

Paul Skelly, Mischa Schwartz, Sudhir Dixit

August 1993 **IEEE/ACM Transactions on Networking (TON)**, Volume 1 Issue 4

Full text available: pdf(1.36 MB) Additional Information: full citation, references, citings, index terms

2 XML indexing and compression: Containment join size estimation: models and methods

Wei Wang, Haifeng Jiang, Hongjun Lu, Jeffrey Xu Yu

June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on Management of data**

Full text available: pdf(301.92 KB) Additional Information: full citation, abstract, references, citings, index terms

Recent years witnessed an increasing interest in researches in XML, partly due to the fact that XML has now become the *de facto* standard for data interchange over the internet. A large amount of work has been reported on XML storage models and query processing techniques. However, few works have addressed issues of XML query optimization. In this paper, we report our study on one of the challenges in XML query optimization: containment join size estimation. Containment join is well accept ...

3 Poster Session: Using shape distributions to compare solid models

Cheuk Yiu Ip, Daniel Lapadat, Leonard Sieger, William C. Regli

June 2002 **Proceedings of the seventh ACM symposium on Solid modeling and applications**

Full text available: pdf(237.71 KB) Additional Information: full citation, abstract, references, citings, index terms

Our recent work has described how to use feature and topology in-formation to compare 3-D solid models. In this work we describe a new method to compare solid models based on shape distributions. Shape distribution functions are common in the computer graphics and computer vision communities. The typical use of shape dis-tributions is to compare 2-D objects, such as those obtained from imaging devices (cameras and other computer vision equipment). Recent work has applied shape distribution metri ...

Keywords: 3D search, shape matching, shape recognition, solid model databases

4 Independence is good: dependency-based histogram synopses for high-dimensional data

Amol Deshpande, Minos Garofalakis, Rajeev Rastogi

May 2001 **ACM SIGMOD Record , Proceedings of the 2001 ACM SIGMOD international conference on Management of data**, Volume 30 Issue 2

Full text available: pdf(237.18 KB) Additional Information: full citation, abstract, references, citings, index terms

Approximating the joint data distribution of a multi-dimensional data set through a compact and accurate histogram synopsis is a fundamental problem arising in numerous practical scenarios, including query optimization and approximate query answering. Existing solutions either rely on simplistic independence assumptions or try to directly approximate the full joint data distribution over the complete set of attributes. Unfortunately, both approaches are doomed to fail for high-dimensional dat ...

5 Flow classification by histograms: or how to go on safari in the internet

Augustin Soule, Kavé Salamatia, Nina Taft, Richard Emilion, Konstantina Papagiannaki

June 2004 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the joint international conference on Measurement and modeling of computer systems**, Volume 32 Issue 1

Full text available: pdf(680.63 KB) Additional Information: full citation, abstract, references, index terms

In order to control and manage highly aggregated Internet traffic flows efficiently, we need to be able to categorize flows into distinct classes and to be knowledgeable about the different behavior of flows belonging to these classes. In this paper we consider the problem of classifying BGP level prefix flows into a small set of homogeneous classes. We argue that using the entire distributional properties of flows can have significant benefits in terms of quality in the derived classification. ...

Keywords: flow classification, internet traffic, parameter estimation

6 Peer-to-peer computing: A content model for evaluating peer-to-peer searching techniques

Brian F. Cooper

October 2004 **Proceedings of the 5th ACM/IFIP/USENIX international conference on Middleware**

Full text available: pdf(352.26 KB) Additional Information: full citation, abstract, references

Simulation studies are frequently used to evaluate new peer-to-peer searching techniques as well as existing techniques on new applications. Unless these studies are accurate in their modeling of queries and documents, they may not reflect how search techniques will perform in real networks, leading to incorrect conclusions about which techniques are best. We describe how to model content so that simulations produce accurate results. We present a content model for peer-to-peer networks, which co ...

Keywords: modeling, peer-to-peer search, performance evaluation, simulation

7 Poster session: Automated learning of model classifications

Cheuk Yiu Ip, William C. Regli, Leonard Sieger, Ali Shokoufandeh

June 2003 **Proceedings of the eighth ACM symposium on Solid modeling and applications**

Full text available: pdf(733.40 KB) Additional Information: full citation, abstract, references, index terms

This paper describes a new approach to automate the classification of solid models using machine learning techniques. Existing approaches, based on group technology, fixed matching algorithms or pre-defined feature sets, impose a priori categorization schemes on engineering data or require significant human labeling of design data. This paper describes a shape learning algorithm and a general technique for "teaching" the algorithm to identify new or hidden classifications that are relevant in ma ...

Keywords: 3D search, machine learning, shape matching, shape recognition, solid model databases

8 Probabilistic modeling of transaction data with applications to profiling, visualization, and prediction

Igor V. Cadez, Padhraic Smyth, Heikki Mannila

August 2001 **Proceedings of the seventh ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available: pdf(872.07 KB) Additional Information: full citation, abstract, references, citings, index terms

Transaction data is ubiquitous in data mining applications. Examples include market basket data in retail commerce, telephone call records in telecommunications, and Web logs of individual page-requests at Web sites. Profiling consists of using historical transaction data on individuals to construct a model of each individual's behavior. Simple profiling techniques such as histograms do not generalize well from sparse transaction data. In this paper we investigate the application of probabilisti ...

Keywords: EM algorithm, mixture models, profiles, transaction data

9 Cross-architecture performance predictions for scientific applications using parameterized models

Gabriel Marin, John Mellor-Crummey

June 2004 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the joint international conference on Measurement and modeling of computer systems**, Volume 32 Issue 1

Full text available: pdf(693.21 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes a toolkit for semi-automatically measuring and modeling static and dynamic characteristics of applications in an architecture-neutral fashion. For predictable applications, models of dynamic characteristics have a convex and differentiable profile. Our toolkit operates on application binaries and succeeds in modeling key application characteristics that determine program performance. We use these characterizations to explore the interactions between an application and a targ ...

Keywords: modeling, performance analysis, prediction

10 Advanced tutorials: Verification and validation: some approaches and paradigms for verifying and

validating simulation models
Robert G. Sargent
December 2001 **Proceedings of the 33nd conference on Winter simulation**

Full text available: pdf(363.56 KB) Additional Information: full citation, abstract, references, citings, index terms

In this paper we discuss verification and validation of simulation models. The different approaches to deciding model validity are described, two different paradigms that relate verification and validation to the model development process are presented, the use of graphical data statistical references for operational validity is discussed, and a recommended procedure for model validation is given.

11 UniFit II: total support for simulation input modeling
Stephen G. Vincent, Averill M. Law
December 1991 **Proceedings of the 23rd conference on Winter simulation**

Full text available: pdf(562.67 KB) Additional Information: full citation, references, citings, index terms

12 Technical session 2: networked multimedia applications: An adaptive skin model and its application to objectionable image filtering
Qiang Zhu, Ching-Tung Wu, Kwang-Ting Cheng, Yi-Leh Wu
October 2004 **Proceedings of the 12th annual ACM international conference on Multimedia**

Full text available: pdf(186.04 KB) Additional Information: full citation, abstract, references, index terms

We propose an adaptive skin-detection method, which allows modelling and detection of the true skin-color pixels with significantly higher accuracy and flexibility than previous methods. In principle, the proposed approach follows a two-step process. For a given image, we first perform a rough skin classification using a generic skin-model which defines the Skin-Similar space. The Skin-Similar space often contains many non-skin pixels due to the inevitable overlap in the color space between s ...

Keywords: SVM, expectation maximization, gaussian mixture model, objectionable image filtering, skin detection

13 Applications of the TES modeling methodology
Benjamin Melamed, Jon R. Hill
December 1993 **Proceedings of the 25th conference on Winter simulation**

Full text available: pdf(846.11 KB) Additional Information: full citation, references

14 A reinforcement learning model of selective visual attention
Silviu Minut, Sridhar Mahadevan
May 2001 **Proceedings of the fifth international conference on Autonomous agents**